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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

 (Currently Amended) A microparticle less than about 20 microns in diameter, comprising:

a polymeric matrix <u>consisting essentially of one or more synthetic polymers having a</u> solubility in water of less than about 1 mg/l;

a carbohydrate;

a lipid; and

nucleic acid molecules, at least 50% of which are supercoiled circular plasmid DNA-a nucleic acid molecule, wherein the nucleic acid molecule is contained within the microparticle, and wherein the microparticle is not encapsulated in a liposome and the microparticle does not comprise a cell.

- 2-3. (Cancelled)
- (Currently Amended) The microparticle of claim 1, wherein the <u>DNA nucleic acid</u> molecule-comprises an expression control sequence operatively linked to a coding sequence.
 - 5-51. (Cancelled)
- 52. (Currently Amended) A preparation-eemprising a plurality of microparticles, each of which comprises a polymeric matrix, a-earbohydrate, a nucleic acid-molecule, and a lipid, wherein:

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the polymeric matrix consists essentially of one or more synthetic polymers having a solubility in water of less than about 1 mg/l:

at least 90% of the microparticles have a diameter less than about 100 microns; and the nucleic acid is an expression vector consisting of circular plasmid DNA molecules, at least 50% of which are supercoiled the nucleic acid molecule is contained within the microparticle, and wherein the microparticles are not encapsulated in liposomes and the microparticles do not comprise cells.

53-63. (Cancelled)

- 64. (Currently Amended) The preparation of claim 52, wherein at least 90% of the microparticles have a diameter less than about 20-11 microns.
- 65. (Previously Presented) The preparation of claim 52, wherein the polymeric matrix is biodegradable.
- 66. (Previously Presented) The preparation of claim 52, wherein the polymeric matrix comprises a synthetic, biodegradable copolymer.
- (Currently Amended) The preparation of claim 66, wherein the copolymer is poly-lactide-co-glycolide poly-lactice-co-glycolic acid (PLGA).
- 68. (Previously Presented) The preparation of claim 67, wherein the ratio of lactic acid to glycolic acid in the copolymer is within the range of about 1:2 to about 4:1 by weight.
- 69. (Previously Presented) The preparation of claim 67, wherein the ratio of lactic acid to glycolic acid in the copolymer is about 65:35 by weight.

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70-84. (Cancelled)

85. (New) The microparticle of claim 4, wherein the coding sequence encodes an expression product at least 7 amino acids in length and comprising a sequence identical to the sequence of (a) a fragment of a naturally-occurring mammalian protein, or (b) a fragment of a naturally-occurring protein from an infectious agent which infects a mammal.

- 86. (New) The microparticle of claim 85, wherein the expression product comprises a fragment of a protein selected from the group consisting of myelin basic protein (MBP), proteolipid protein (PLP), invariant chain, GAD65, islet cell antigen, desmoglein, α-crystallin, and β-crystallin, wherein the fragment binds an MHC class II molecule.
- 87. (New) The microparticle of claim 85, wherein the expression product comprises an amino acid sequence identical to a sequence selected from the group consisting of SEQ ID NOS 1-46.
- 88. (New) The microparticle of claim 85, wherein the expression product comprises a trafficking sequence selected from the group consisting of a sequence which trafficks to endoplasmic reticulum, a sequence which trafficks to a lysosome, a sequence which trafficks to an endosome, and a sequence which trafficks to the nucleus.
- 89. (New) The microparticle of claim 85, wherein the expression product comprises an amino acid sequence identical to the sequence of an antigenic portion of a tumor antigen.
- 90. (New) The microparticle of claim 85, wherein the expression product comprises an amino acid sequence identical to the sequence of an antigenic fragment of a protein naturally expressed by an infectious agent selected from the group consisting of a virus, a bacterium, and a parasitic eukaryote.

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91. (New) The microparticle of claim 90, wherein the infectious agent is selected from the group consisting of human papillomavirus, human immunodeficiency virus, herpes simplex virus, hepatitis B virus, hepatitis C virus, *Plasmodium* species, and mycobacteria.

- 92. (New) The microparticle of claim 90, wherein the infectious agent is a virus.
- 93. (New) The microparticle of claim 1, wherein the lipid is a charged lipid.
- 94. (New) The microparticle of claim 1, wherein the lipid is hexadecyltrimethylammonium bromide.
 - 95. (New) The microparticle of claim 1, wherein the polymeric matrix is biodegradable.
- 96. (New) The microparticle of claim 1, wherein the polymeric matrix comprises a synthetic, biodegradable copolymer.
- (New) The microparticle of claim 96, wherein the copolymer is poly-lactide-coglycolide.
- 98. (New) The microparticle of claim 97, wherein the ratio of lactic acid to glycolic acid in the copolymer is within the range of 1:2 to 4:1 by weight.
- 99. (New) The microparticle of claim 97, wherein the ratio of lactic acid to glycolic acid in the copolymer is 65:35 by weight.
- 100. (New) The microparticle of claim 1, wherein the polymeric matrix further comprises a targeting molecule.

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101. (New) The microparticle of claim 1, wherein the microparticle has a diameter of less than about 11 microns.

- 102. (New) The microparticle of claim 1, wherein at least 60% of the circular plasmid DNA is supercoiled.
- 103. (New) The microparticle of claim 1, wherein at least 70% of the circular plasmid DNA is supercoiled.
- 104. (New) The microparticle of claim 1, wherein at least 80% of the circular plasmid DNA is supercoiled.
- 105. (New) The preparation of claim 52, wherein the polymeric matrix further comprises a targeting molecule.
- 106. (New) The preparation of claim 52, wherein the microparticles have a diameter of less than about 11 microns.
- 107. (New) The preparation of claim 52, wherein the microparticles are suspended in an aqueous solution.
 - 108. (New) The preparation of claim 52, wherein the microparticles are a dry solid.
 - 109. (New) The preparation of claim 52, wherein the lipid is a charged lipid.
- 110. (New) The preparation of claim 52, wherein the lipid is hexadecyltrimethylammonium bromide.

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111. (New) The preparation of claim 52, wherein at least 60% of the circular plasmid DNA is supercoiled.

- 112. (New) The preparation of claim 52, wherein at least 70% of the circular plasmid DNA is supercoiled.
- 113. (New) The preparation of claim 52, wherein at least 80% of the circular plasmid DNA is supercoiled.